



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

ES Windows, LLC

10653 N.E. Quaybridge Ct.

Miami, FL 33138

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "1000/ 1050" Aluminum Single Hung Window - L. M. I.

APPROVAL DOCUMENT: Drawing No. W03-56, titled "Series-1000/ 1050 Alum. Single Hung Wdw. (L.M.I)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 07/31/03 with revision "H" dated 12/07/11, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LIMITATIONS: Glass lites wider than 36" shall have two setting blocks per FBC requirements.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 09-1008.05 and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



J. Gascon
5/9/12

NOA No. 12-0223.42

Expiration Date: November 06, 2013

Approval Date: May 17, 2012

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA's No.'s 09-1008.05, 07-0928.14, 05-0720.01 and 03-0910.03)
2. Drawing No. **W03-56**, titled "Series-1000/ 1050 Alum. Single Hung Wdw. (L.M.I)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 07/31/03 with revision "H" dated 12/07/11, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, Level LV 1 per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94
 - 7) Standard Test Method for Determination of Operating Force of Sliding Windows and Doors per ASTM E2068-00 (2008)

along with marked-up drawings and installation diagram of an Aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-5815** and **FTL-5337**, dated 02/13/09 and 01/25/08, both signed and sealed by Michael R. Wenzel, P. E.

(Submitted under previous NOA's No.'s 09-1008.05 and 07-0928.14)

2. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, Level LV 1 per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94
 - 7) Standard Test Method for Determination of Operating Force of sliding Windows and Doors per ASTM E2068-00 (2008)

along with marked-up drawings and installation diagram of an Aluminum single hung window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s **HETI-05-1448** and **HETI-05-1953**, dated 04/22/05 and 04/25/05, both signed and sealed by Ivonne Ghia, P. E.

(Submitted under previous NOA No. 05-0720.01)



Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 12-0223.42

Expiration Date: November 06, 2013

Approval Date: May 17, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

3. Test reports on:
- 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, Level LV 1 per ASTM F 588-94 and per FBC 2411.3.2.1, TAS 202-94
 - 7) Standard Test Method for Determination of Operating Force of sliding Windows and Doors per ASTM E 2068-00

along with marked-up drawings and installation diagram of an Aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-3820 & FTL-3806**, dated 06/09/03, all signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-0910.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, prepared by Al-Farooq Corporation, dated 12/09/11, signed and sealed by Javad Ahmad, P. E.
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE


1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/2011, expiring on 12/11/2016.

F. STATEMENTS

1. Statement letter of no financial interest, conformance and compliance with the **FBC-2010**, dated 12/08/11, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Reports No.'s **FTL-5815** and **FTL-5337**, issued by Fenestration Testing Laboratory, Inc., dated 02/13/09 and 01/25/08, all signed and sealed by Michael R. Wenzel, P. E.
(Submitted under previous NOA's No.'s 09-1008.05 and 07-0928.14)
3. Proposal No. **09-1583** issued by Product Control, dated 11/23/09, signed by Jaime D. Gascon, P. E.
(Submitted under previous NOA No. 09-1008.05)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0223.42
Expiration Date: November 06, 2013
Approval Date: May 17, 2012

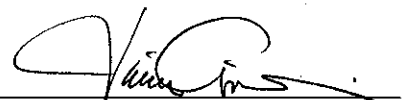
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Laboratory compliance letter for Test Reports No's **HETI-05-1448** and **HETI-05-1953**, issued by Hurricane Engineering & Testing, Inc., dated 04/22/05 and 04/25/05, both signed and sealed by Ivonne Ghia, P. E.
(Submitted under previous NOA No. 05-0720.01)
5. Laboratory compliance letter for Test Reports No.'s **FTL-3820** and **FTL-3806**, issued by Fenestration Testing Laboratory, Inc., dated 06/09/03, all signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-0910.03)

G. OTHERS

1. Notice of Acceptance No. **09-1008.05**, issued to ES Windows, LLC, for their Series **"1000/ 1050 Aluminum Single Hung Window - L.M.I."**, approved on 12/30/09 and expiring on 11/06/13.



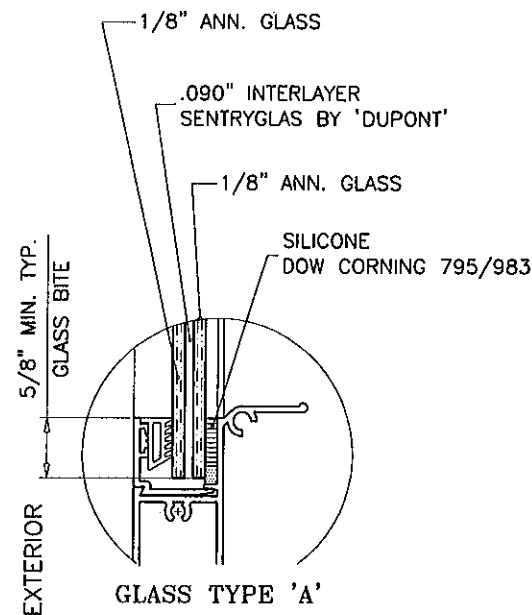
Jaime D. Gascon, P. E.

Product Control Section Supervisor

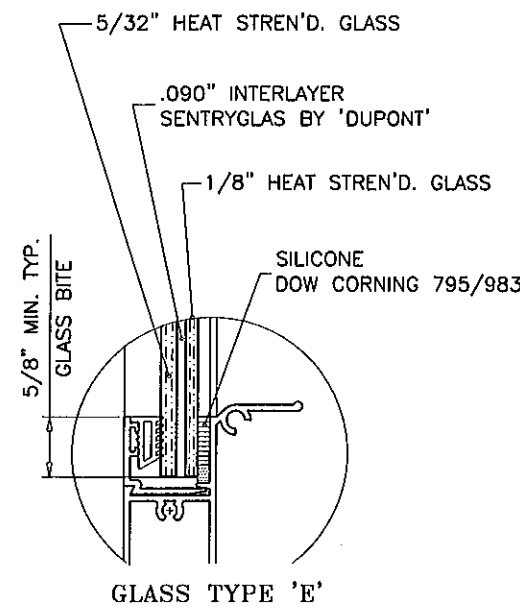
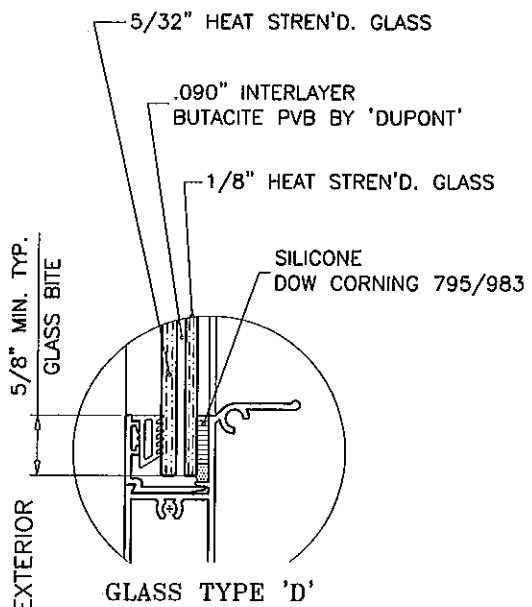
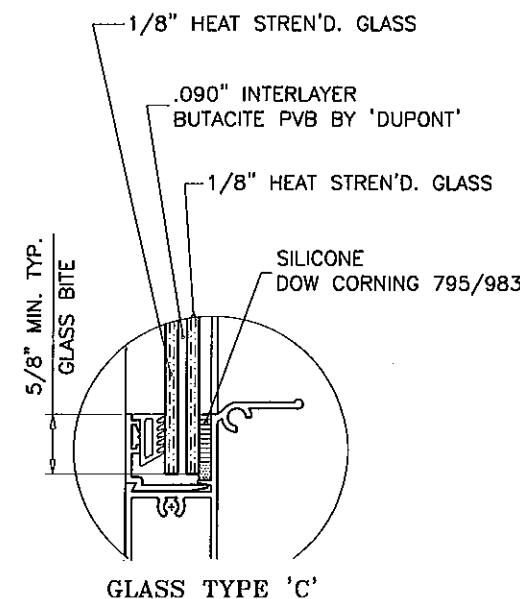
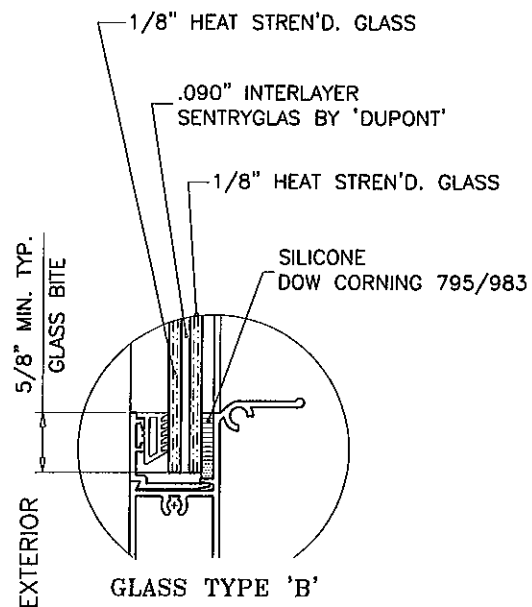
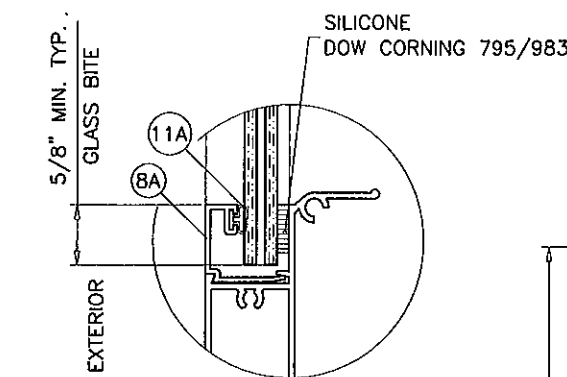
NOA No. 12-0223.42

Expiration Date: November 06, 2013

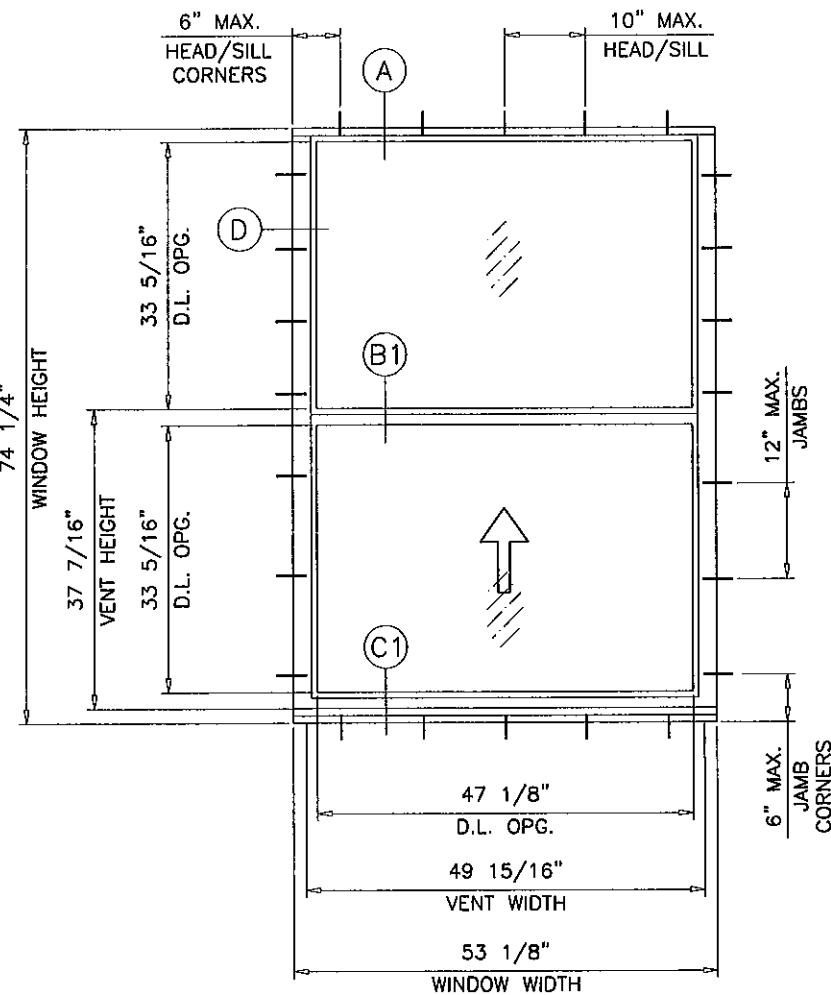
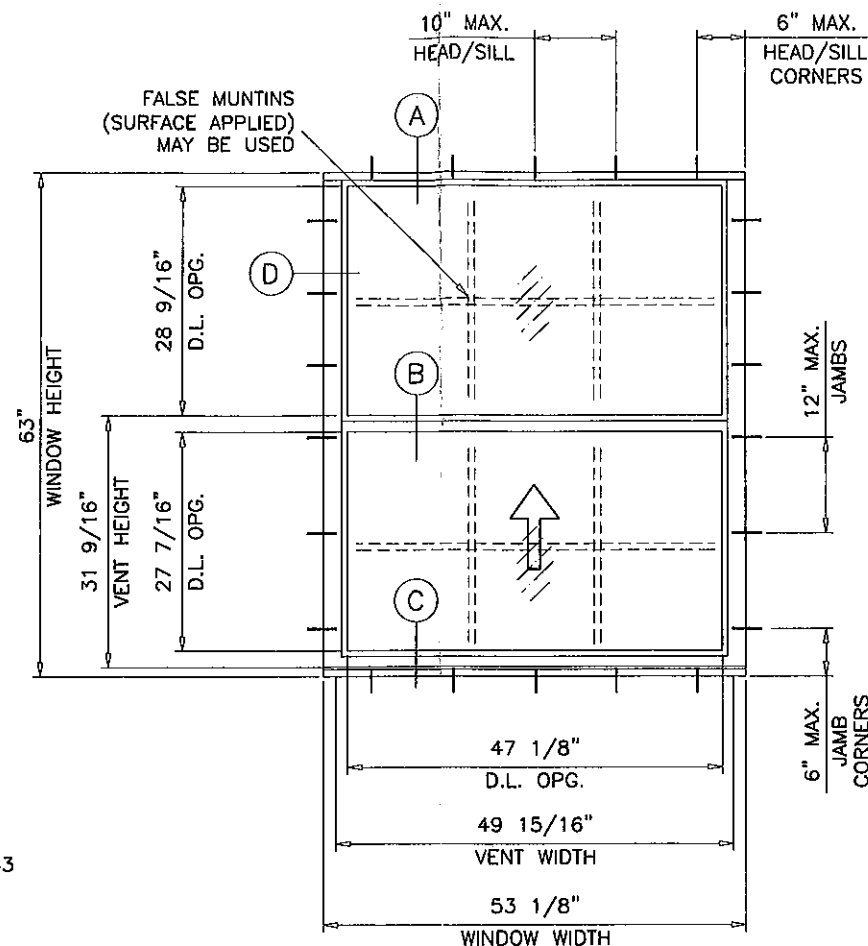
Approval Date: May 17, 2012



ALT. GLAZING OPTION
SQUARE GLAZING STOP CAN BE USED WITH ALL GLASS TYPES SHOWN ON THIS SHEET.



GLAZING OPTIONS



SERIES-1000/1050 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

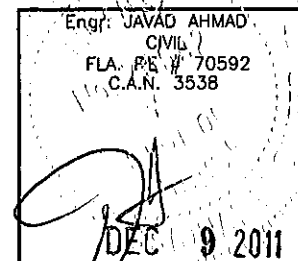
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0223.42
Expiration Date 11/06/2013
By: [Signature]
Miami Dade Product Control

SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

NO.	DATE	DESCRIPTION
E	03.03.06	NO CHANGE THIS SHEET
F	04.23.08	GENERAL REVISION
G	07.15.09	LATCH OPTION ADDED
H	12.07.11	ALT. GLAZING OPTION ADDED

date: 07-31-03

scale: 1/2"=1'-0"

dr. by: HAMID

chk. by:

drawing no.

W03-56

sheet 1 of 8

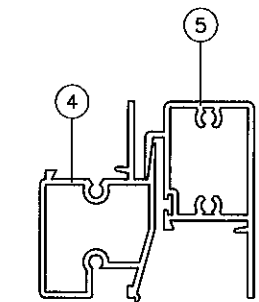
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

afc

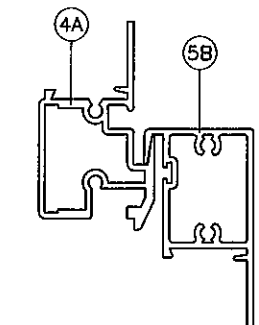
COMP-ANL\W03-56ESW

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF (HI-RISE SILL)							
WINDOW DIMS.		STANDARD TOP RAIL				HEAVY DUTY TOP RAIL	
		GLASS TYPE 'A'		GLASS TYPES 'B', 'C', 'D' & 'E'		GLASS TYPES 'B', 'C', 'D' & 'E'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (3)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19-1/8"	38-3/8" (4)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19-1/8"	50-5/8" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19-1/8"	58" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19-1/8"	63" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19-1/8"	68" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		-	-	-	-	80.0	90.0
19-1/8"	74-1/4" (7)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		-	-	-	-	80.0	90.0
53-1/8"		-	-	-	-	80.0	90.0
19-1/8"	80" (7)	-	-	-	-	80.0	90.0
26-1/2"		-	-	-	-	80.0	90.0
37"		-	-	-	-	80.0	90.0
42"		-	-	-	-	80.0	90.0
49"		-	-	-	-	80.0	90.0

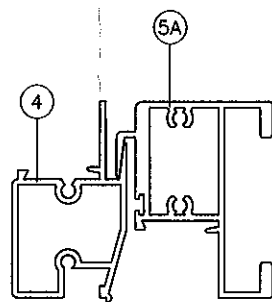
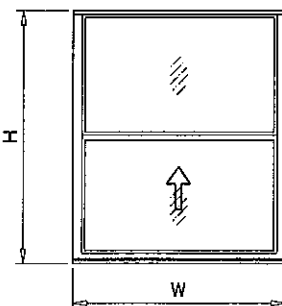
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.
LIMIT EXTERIOR(+) LOADS TO 70.0 PSF FOR STD. SILL.



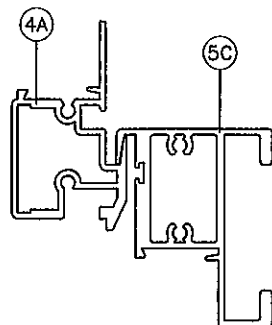
STD. TOP RAIL
S-1000



STD. TOP RAIL
S-1050



HEAVY DUTY TOP RAIL
S-1000

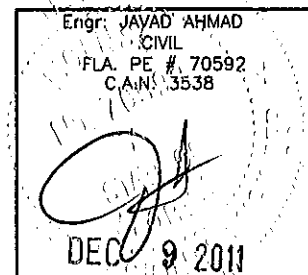
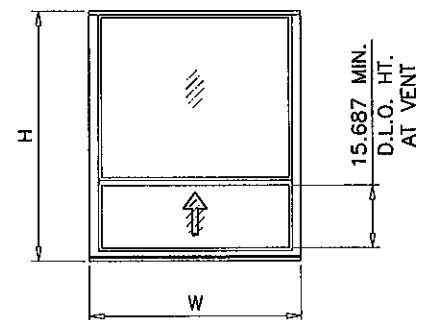


HEAVY DUTY TOP RAIL
S-1050

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

UNEQUAL LITES (ORIEL TYPES) WINDOWS DESIGN LOAD CAPACITY - PSF (HI-RISE SILL)							
WINDOW DIMS.		STANDARD TOP RAIL				HEAVY DUTY TOP RAIL	
		GLASS TYPE 'A'		GLASS TYPES 'B', 'C', 'D' & 'E'		GLASS TYPES 'B', 'C', 'D' & 'E'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53-1/8"		70.0	74.0	80.0	90.0	80.0	90.0
19-1/8"	58" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		-	-	-	-	80.0	90.0
19-1/8"	63" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		-	-	-	-	80.0	90.0
49"		-	-	-	-	80.0	90.0
19-1/8"	68" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		-	-	-	-	80.0	90.0
42"		-	-	-	-	80.0	90.0
49"		-	-	-	-	80.0	90.0
19-1/8"	74-1/4" (7)	70.0	80.0	80.0	90.0	80.0	90.0
26-1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		-	-	-	-	80.0	90.0
42"		-	-	-	-	80.0	90.0
49"		-	-	-	-	80.0	90.0

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.
LIMIT EXTERIOR(+) LOADS TO 70.0 PSF FOR STD. SILL.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0223.42
Expiration Date 11/06/2013
By [Signature]
Miami Dade Product Control

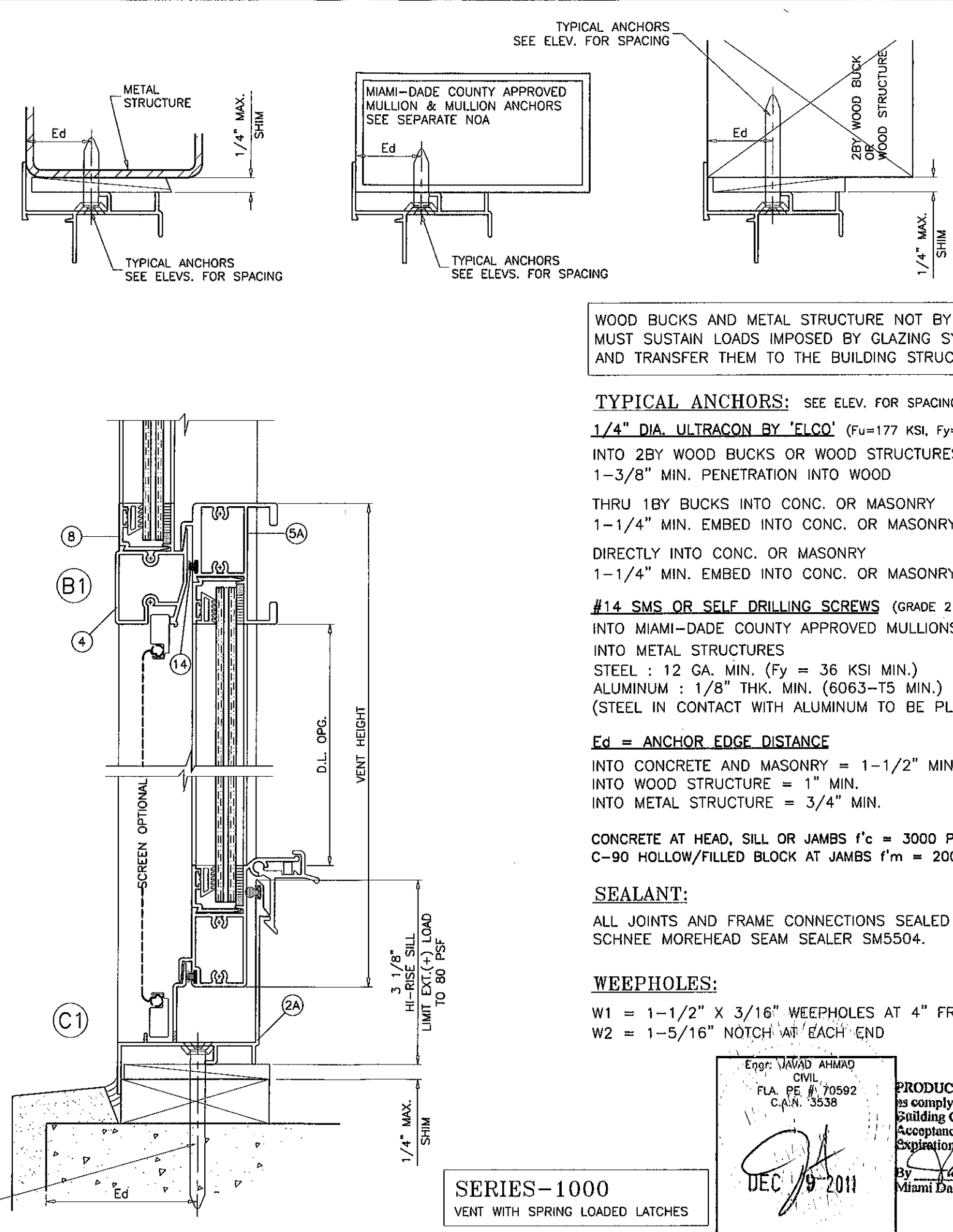
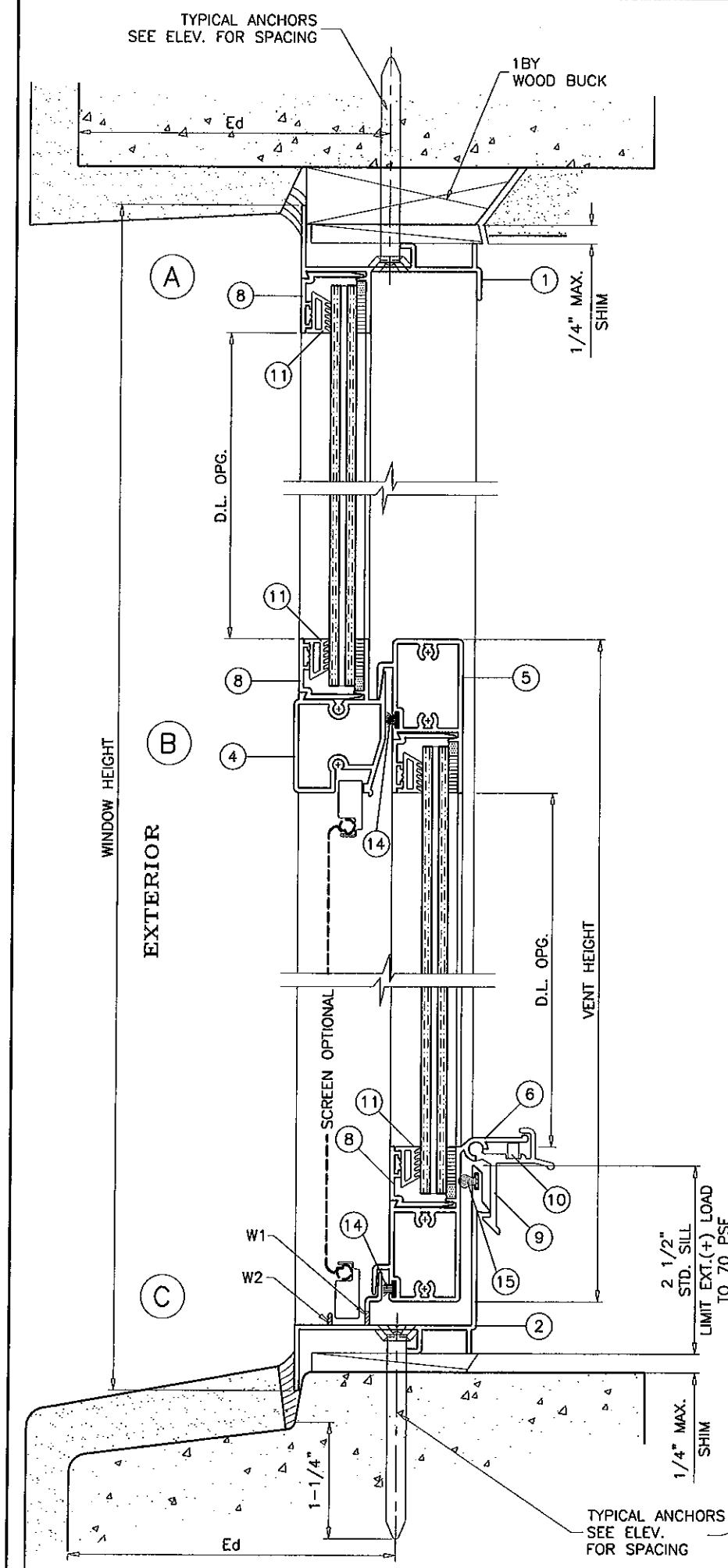
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-5100 FAX. (305) 262-6978
COMP - ANL \ W03 - 56ESW

SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)
E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

revisions:	no	date	by	description
	E	03.03.06		NO CHANGE THIS SHEET
	F	04.23.08		GENERAL REVISION
	G	07.15.09		LATCH OPTION ADDED
	H	12.07.11		NO CHANGE THIS SHEET

date:	07-31-03
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.
W03-56
sheet 2 of 8



WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-3/8" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

Ed = ANCHOR EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD SEAM SEALER SM5504.

WEEPHOLES:

W1 = 1-1/2" X 3/16" WEEPHOLES AT 4" FROM EACH END
 W2 = 1-5/16" NOTCH AT EACH END

SERIES-1000
 VENT WITH SPRING LOADED LATCHES

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 DEC 9 2011

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 as complying with the Florida
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 Expiration Date 11/06/2013
 By: [Signature]
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 ENGINEERS & PRODUCT DEVELOPMENT
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 COMP - ANL / W03-56ESW

a f c

SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

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date: 07-31-03

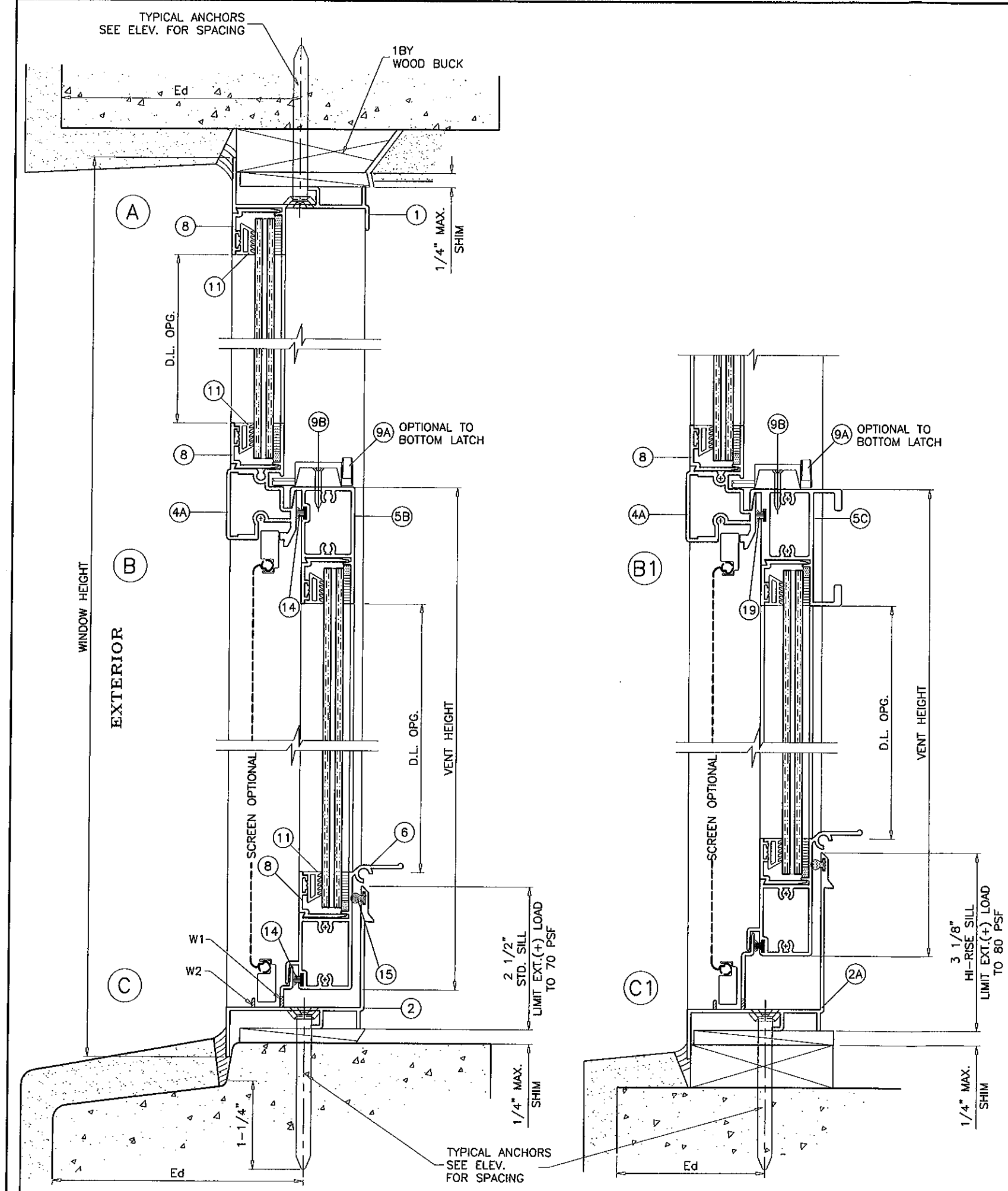
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dr. by: HAMID

chk. by:

drawing no.
W03-56

sheet 3 of 8



SERIES-1050
VENT WITH SWEEP LATCHES

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SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

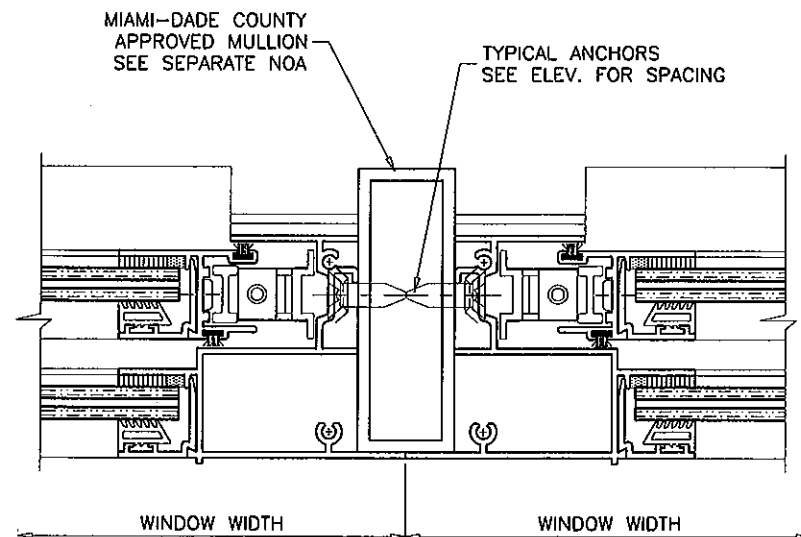
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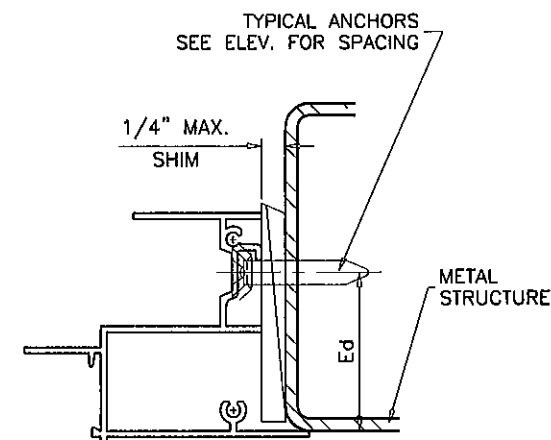
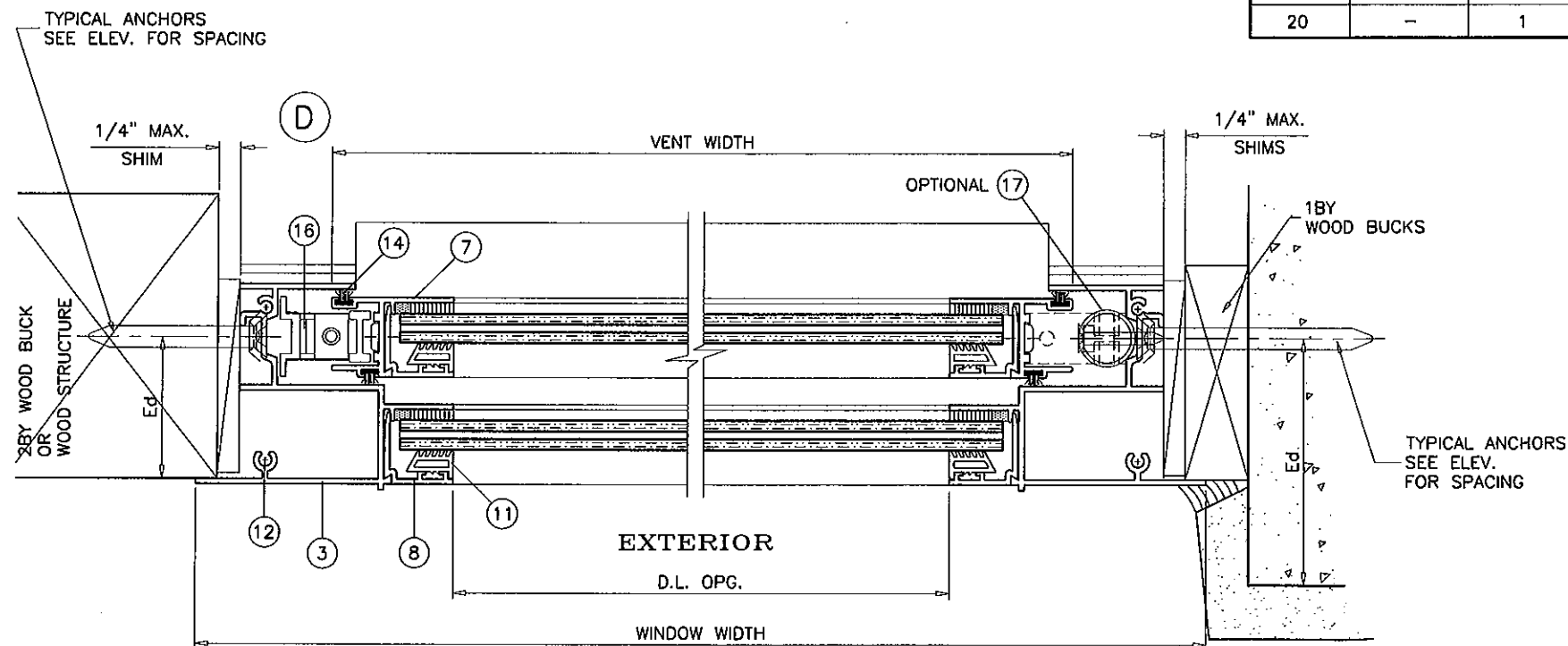
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sheet 4 of 8



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1001	1	FRAME HEAD	6063-T6	-
2	ES1002	1	FRAME SILL (STD.)	6063-T6	-
2A	ES1101	1	FRAME SILL (HI-RISE)	6063-T6	-
3	ES1003	2	FRAME JAMB	6063-T6	-
4	ES1005	1	FIXED MTG. RAIL (FOR SPRING LATCH)	6063-T6	-
4A	ES1051	1	FIXED MTG. RAIL (FOR SWEEP LATCH)	6063-T6	-
5	ES1004	1	STD. VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	-
5A	ES2004	1	HEAVY DUTY VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	-
5B	ES1052	1	STD. VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	-
5C	ES1053	1	HEAVY DUTY VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	-
6	ES1006	1	VENT BOTTOM RAIL	6063-T6	-
7	ES1007	2	VENT SIDE RAIL	6063-T5	-
8	ES1008	AS REQD.	GLAZING BEAD	6063-T6	-
8A	ES1103	AS REQD.	SQUARE GLAZING BEAD	6063-T5	-
9	ES1009	2/VENT	SPRING LOADED VENT LATCH	6063-T5	AT 6" FROM ENDS
9A	3032	2/VENT	SWEEP LATCH	ZAMAK	AT 11" FROM ENDS
9B	#8 X 1"	2/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
10	ES1012	1/LATCH	LATCH SPRING	ST. STEEL	-
11	ES1010	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 70 SHORE 'A'
11A	27-425	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60 SHORE 'A'
12	#8 X 1"	20	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
13	ES1011	2/VENT	SASH CAM	CELCON	-
14	43620-187	AS REQD.	PILE W'STRIPPING WITH PLASTIC FIN	-	AMESBURY OR EQUIV.
15	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
16	-	2/ VENT	BLOCK & TACKLE BALANCE	-	SERIES 120 BY BSI
17	-	2/ VENT	SPIRAL BALANCE	-	-
18	ES1013	2	SASH STOP	-	-
19	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL
20	-	1	5/16" BOX SCREEN	-	OPTIONAL



SERIES-1000
SERIES-1050

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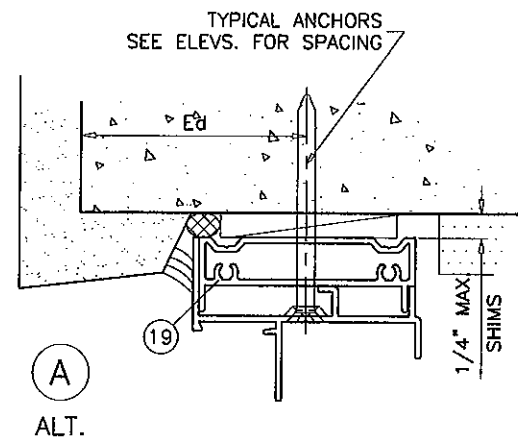
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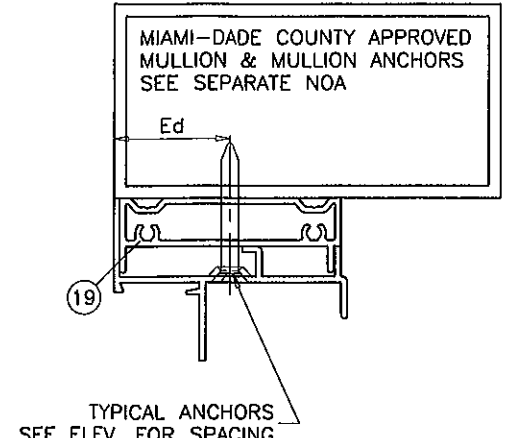
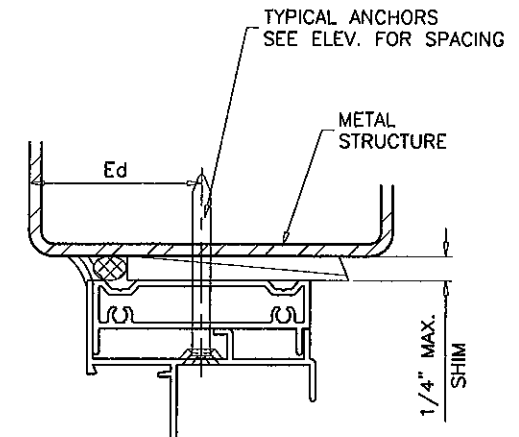
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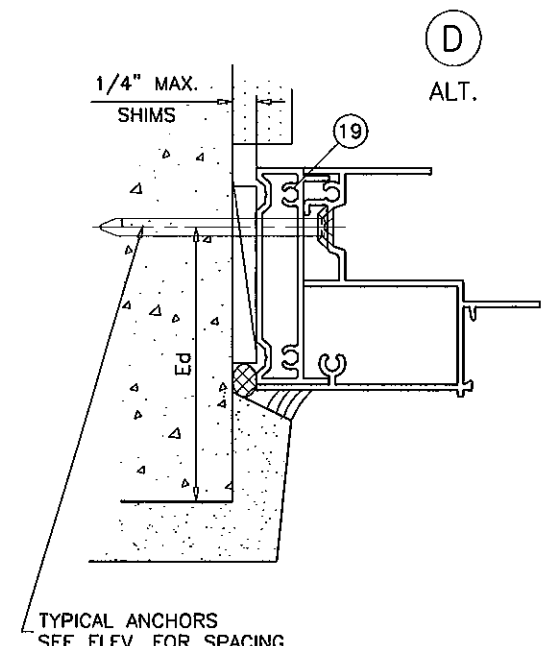
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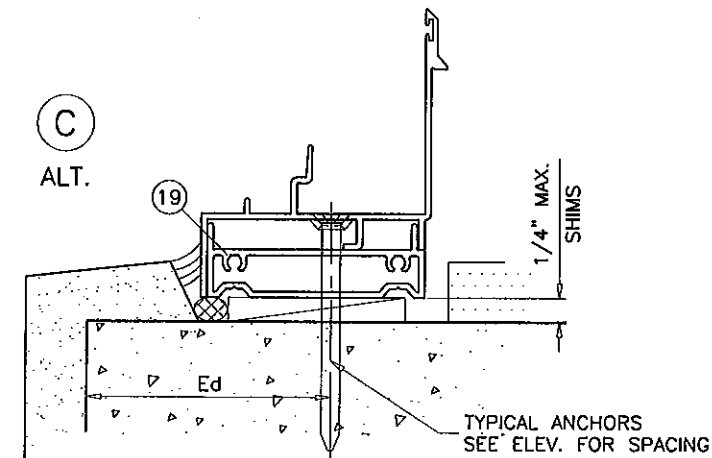
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TYPICAL ANCHORS
SEE ELEV. FOR SPACING



D
ALT.



C
ALT.

INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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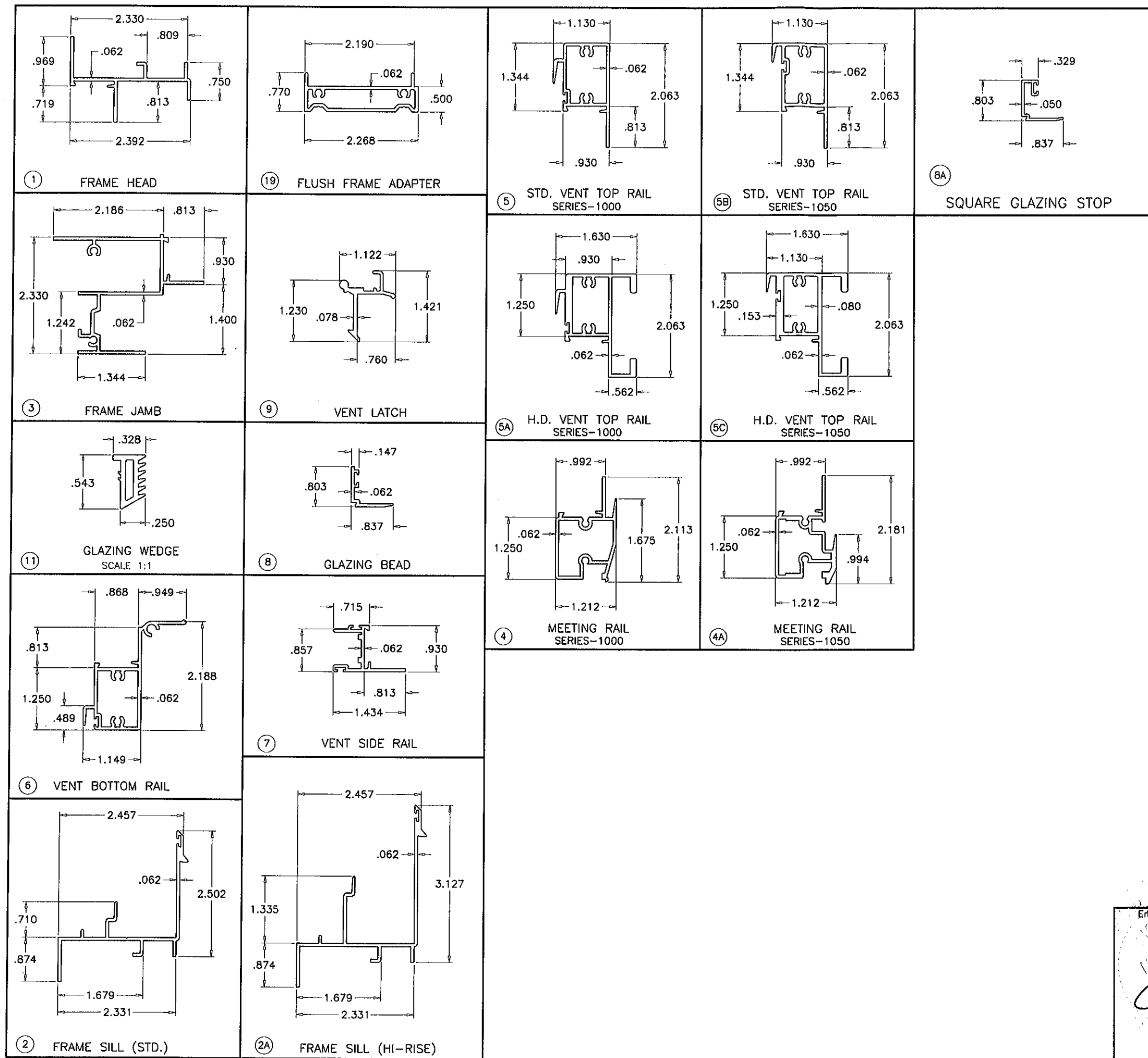
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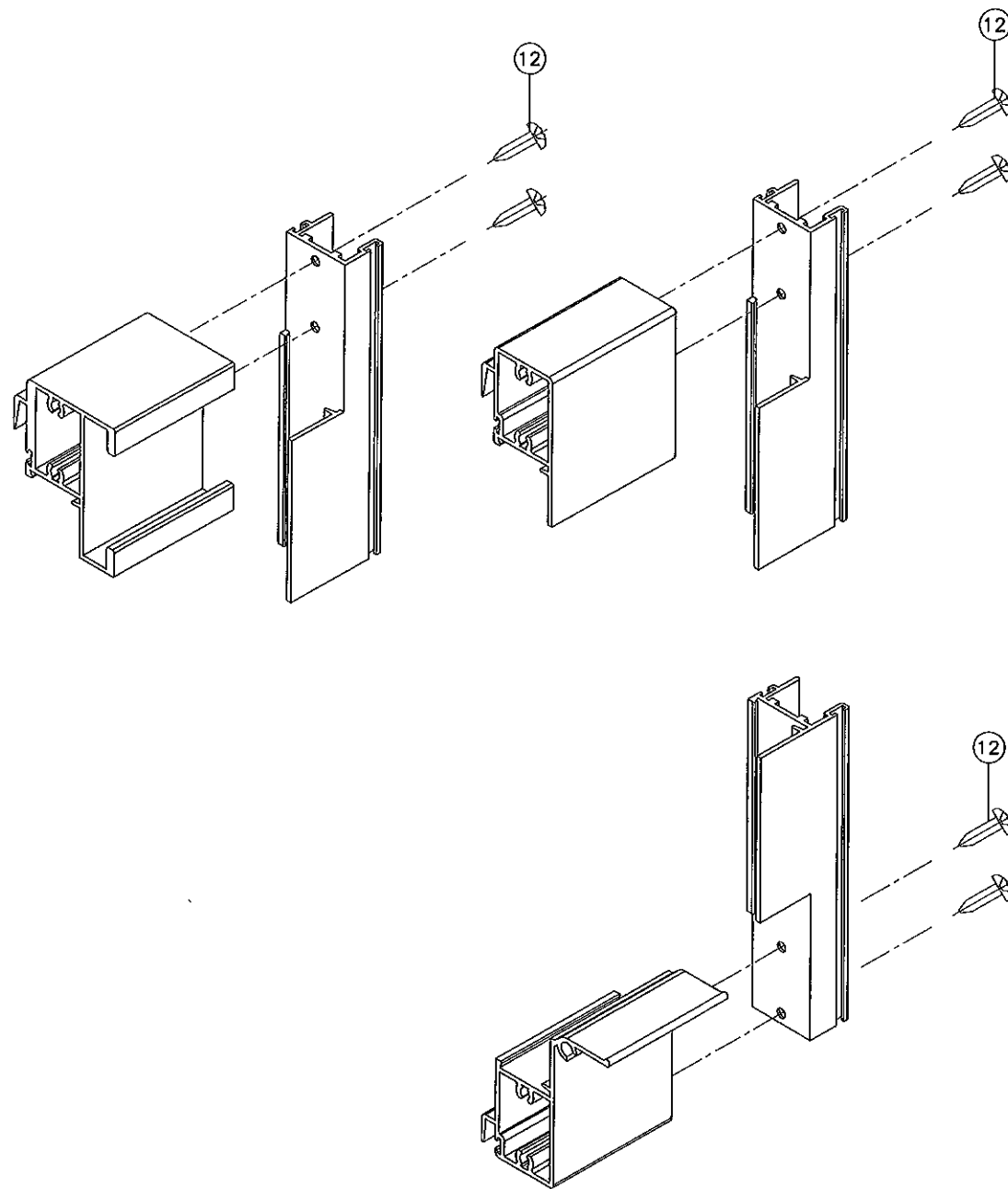
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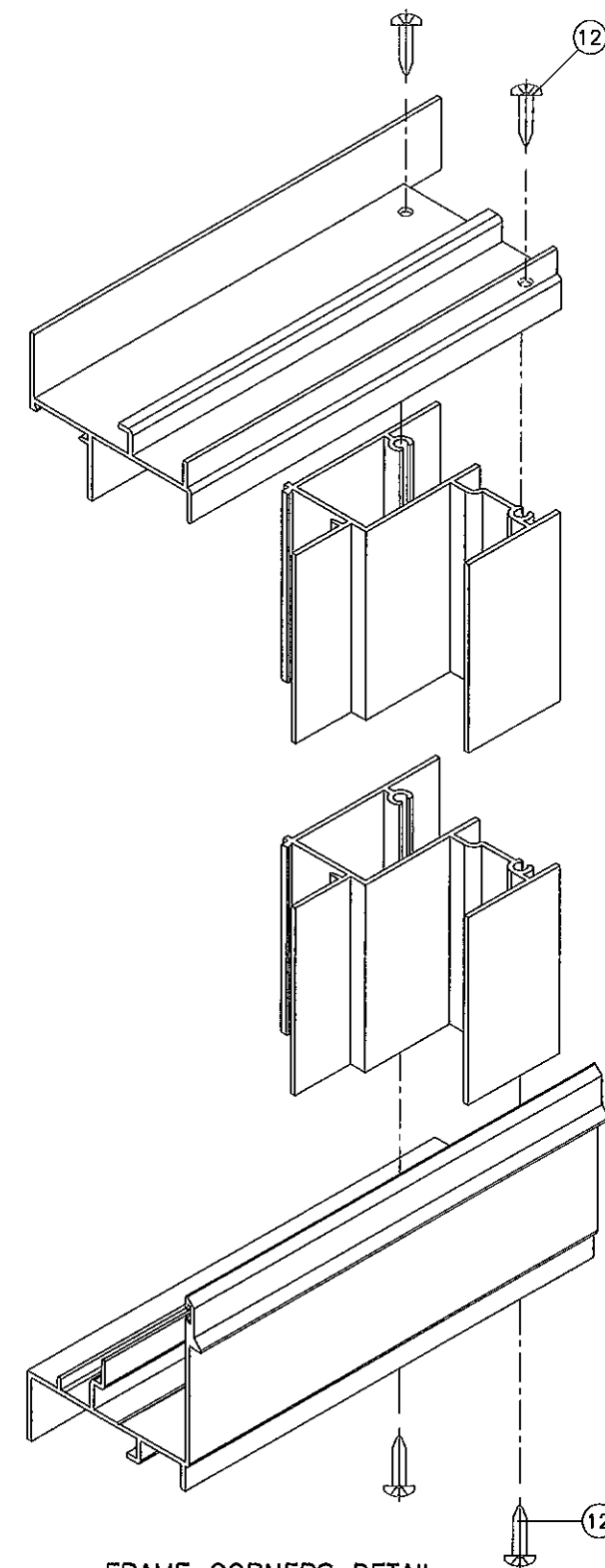
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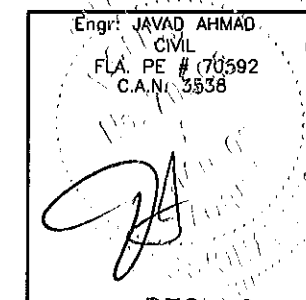
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VENT CORNER DETAIL



FRAME CORNERS DETAIL



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